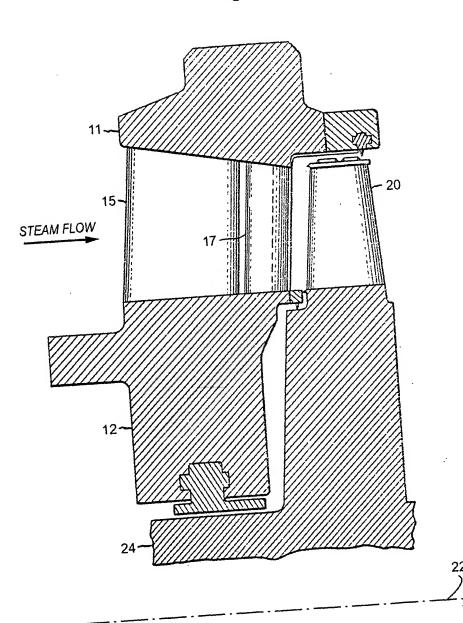
Fig. 1



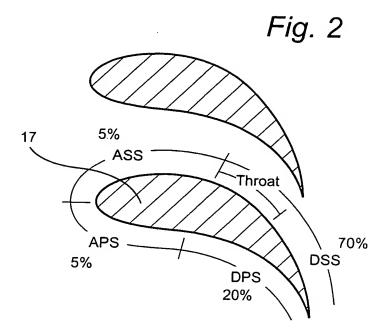
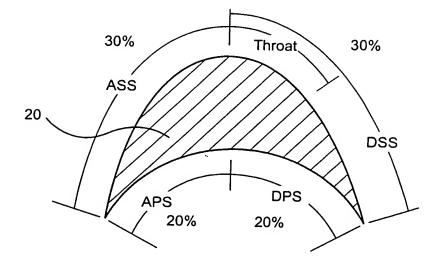


Fig. 3



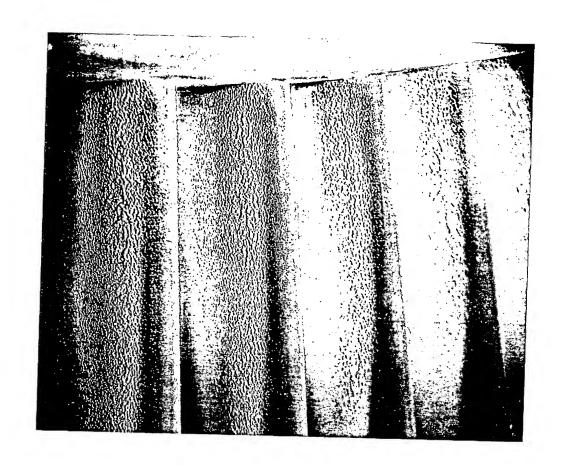
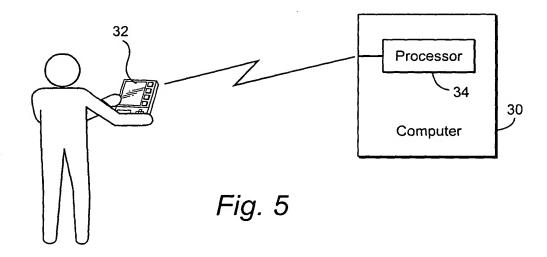


Fig. 4



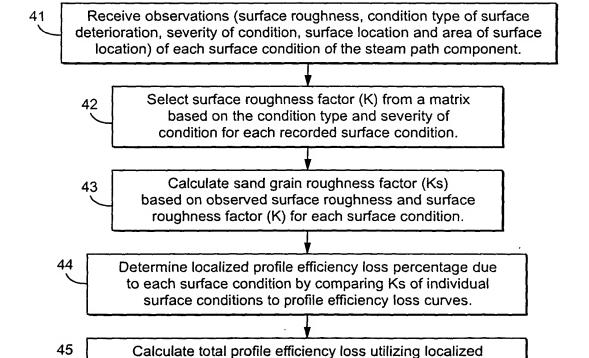


Fig. 6

profile efficiency loss percentages and weighting factors for different surface locations or their sub-areas.

			Influence	Factor	0.100	PE Loss	%	0.177%	0.155%		0.228%		_	_		1.276%	0.192%		-		1.191%	0.104%		0.228%					0.524%	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	3,246,938	0.552	13,233,929	2.250	32	ks/L	(x 10 ⁻³)	0.014	0.014		0.016					0.059	0.015				0.054	0.012		0.016					TOTAL	22
Nozzle Data	Pitch		mber	Axial Width	Base RMS	ks Factor	Matrix	0.119	0.119		0.119					0.332	0.119				0.332	0.119		0.119						26
Nozzle	REN	Throat at Pitch	Reynold's	Axial	Base	Surface	Туре	က	က		က					က	က				က	က		က						52
						Severity Rank	Condition	7	7		7					က	7				ო	7		7			·-			53
					Ra-rms	μ-in	89	65		75	-				100	20				91	28		75						25	
							Location local area	20%	20%	%0	100%	%0	%0	%0	%0	20%	20%	%0	%0	%0	20%	20%	%0	100%	%0	%0	%0	%0		55
				0.52%		Surface	Location	ASS ₁	ASS ₂	ASS ₃	APS1	APS ₂	APS ₃	OSWAS	ISWAS	THT	THT ₂	THT3	OSWTHT	ISWTHT	DSS1	DSS ₂	DSS ₃	DPS ₁	DPS ₂	DPS ₃	OSWDS	ISWps		}%
	STAGE #	1	/	TOTAL PROFILE	LOSS OF NOZZLE	% of	S. F. Loss	2%			2%			%0	%0	%1			%0	%0	63%		20%		%0	%0	100%	8		
Admission Side Losses Must Equal %01												3	Throat Losses 7-20% DSS				leup3 blu				Discharg Iod2 sasso			די	TOTAL					
													arge Side Surface Must al 70%					Suction				DPS Must Equal 20%								
																Discharge Side Losses Must equal 90%														

-1d. /

Surface Condition Type of Deterioration

6/7

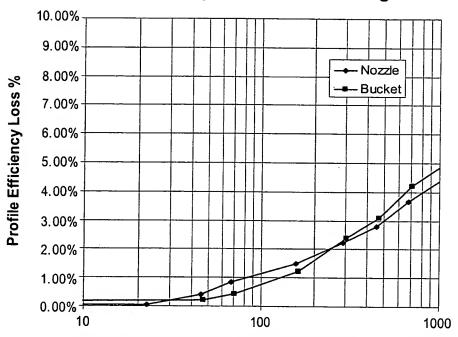
FORMULAS Nozzles:

Buckets:

SF TOTAL LOSS Nozz SF TOTAL LOSS BKt

= 100%(.30*ASS+.20*APS+.30*DPS+.1*THT+.20*DSS) = 10%(ASS+APS)+20%(DPS)+70%(THT +DSS)

STAGE HP_7
Profile Efficiency Loss vs. Surface Roughness



Equivalent Sand Grain Roughness Ks (micro-inches)

Fig. 9